

**Providing PBX Telephony
with your
IP LAN/WAN Network**

January 19, 1998

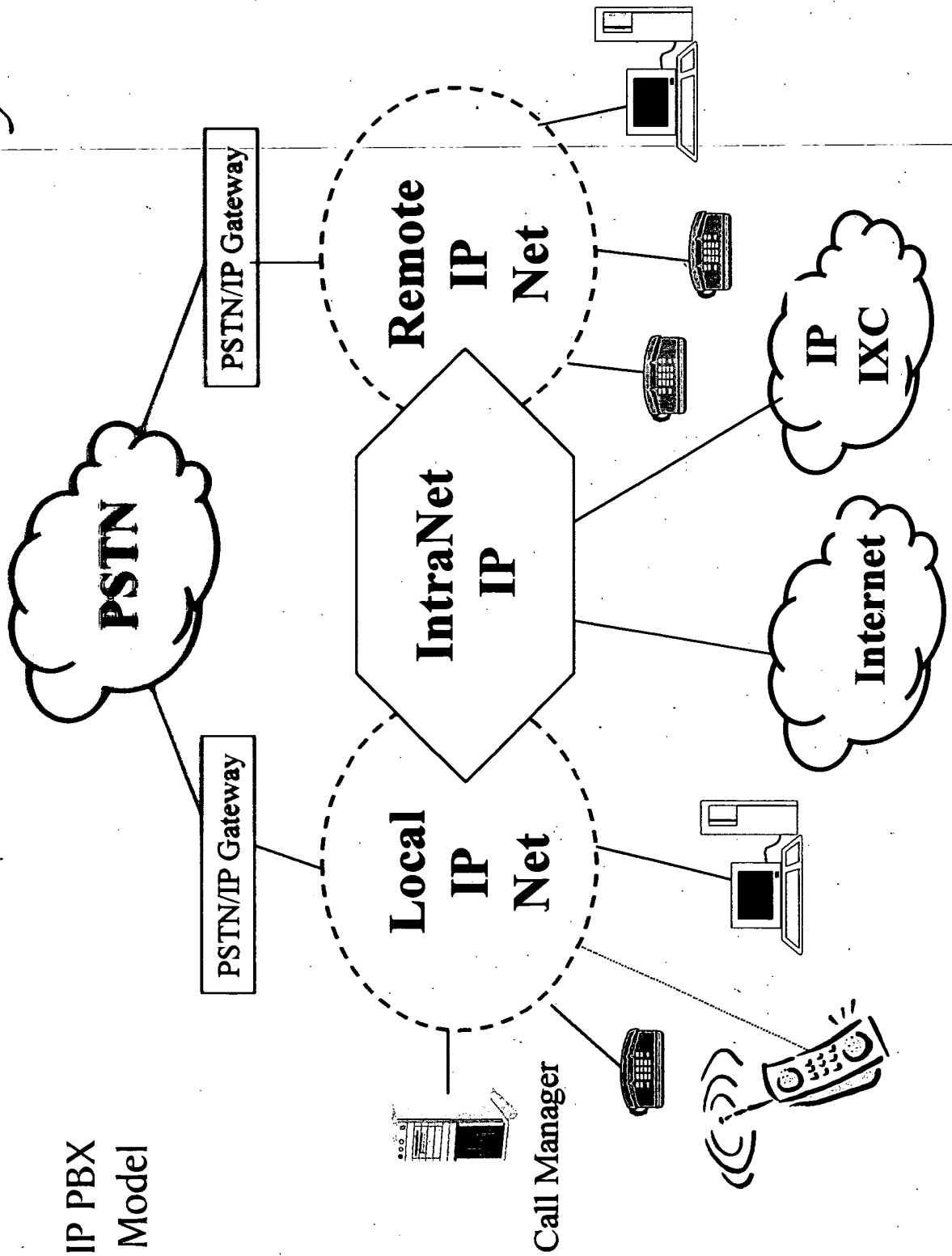
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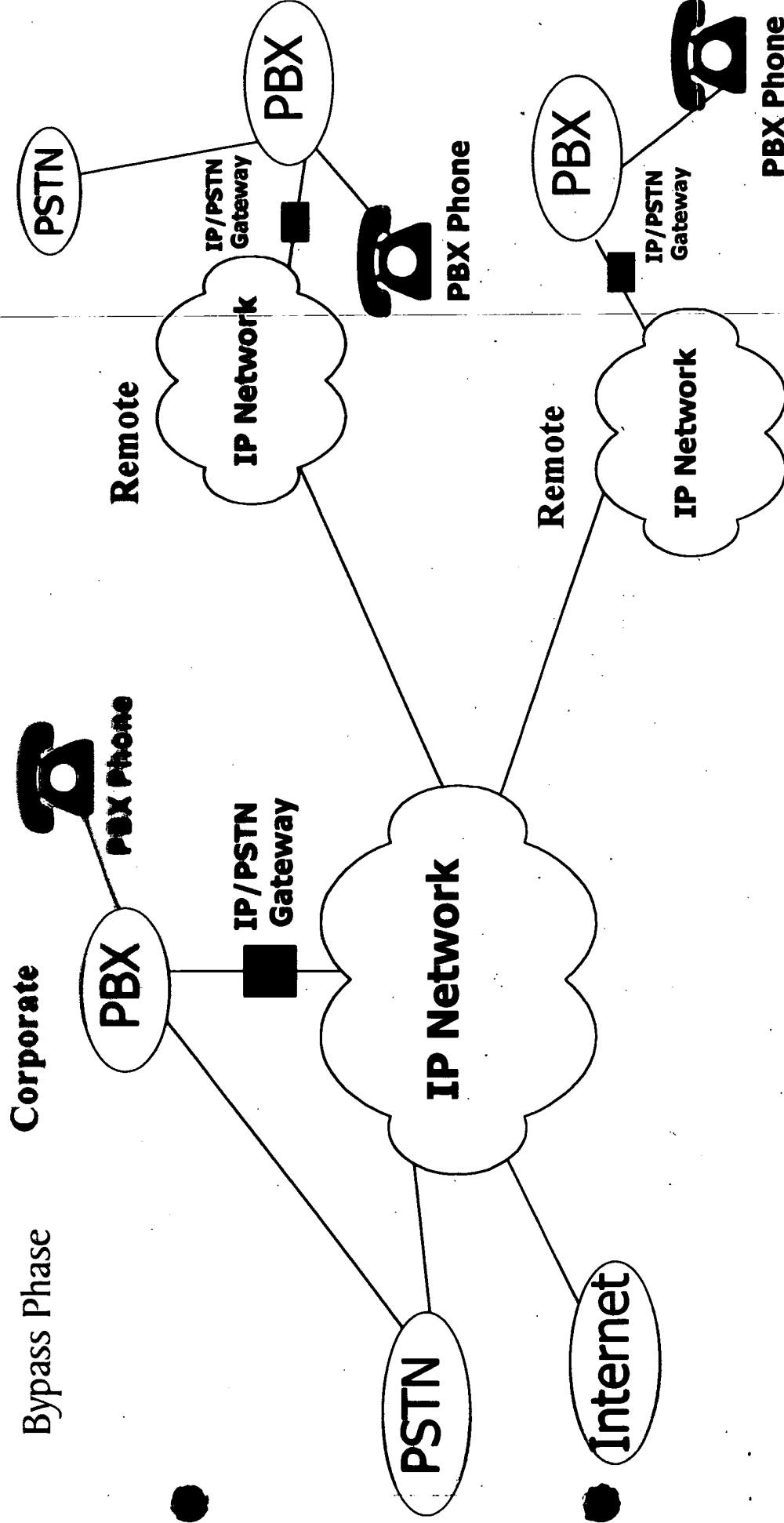
Vision

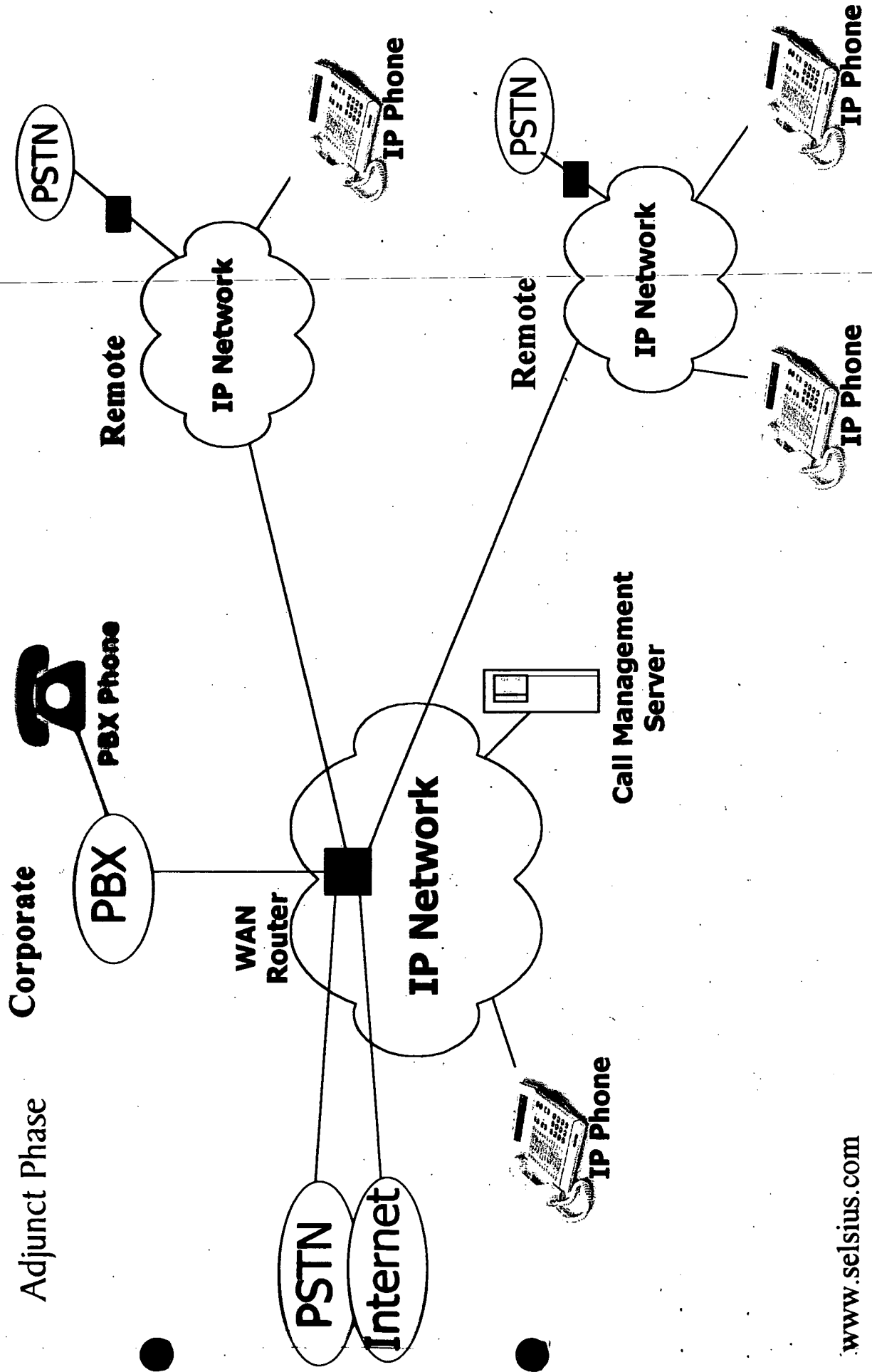
- “A new paradigm is emerging, where the IP network becomes the vehicle for delivering voice services, offering high-quality, reliable telephony along with a new set of enhanced services.”

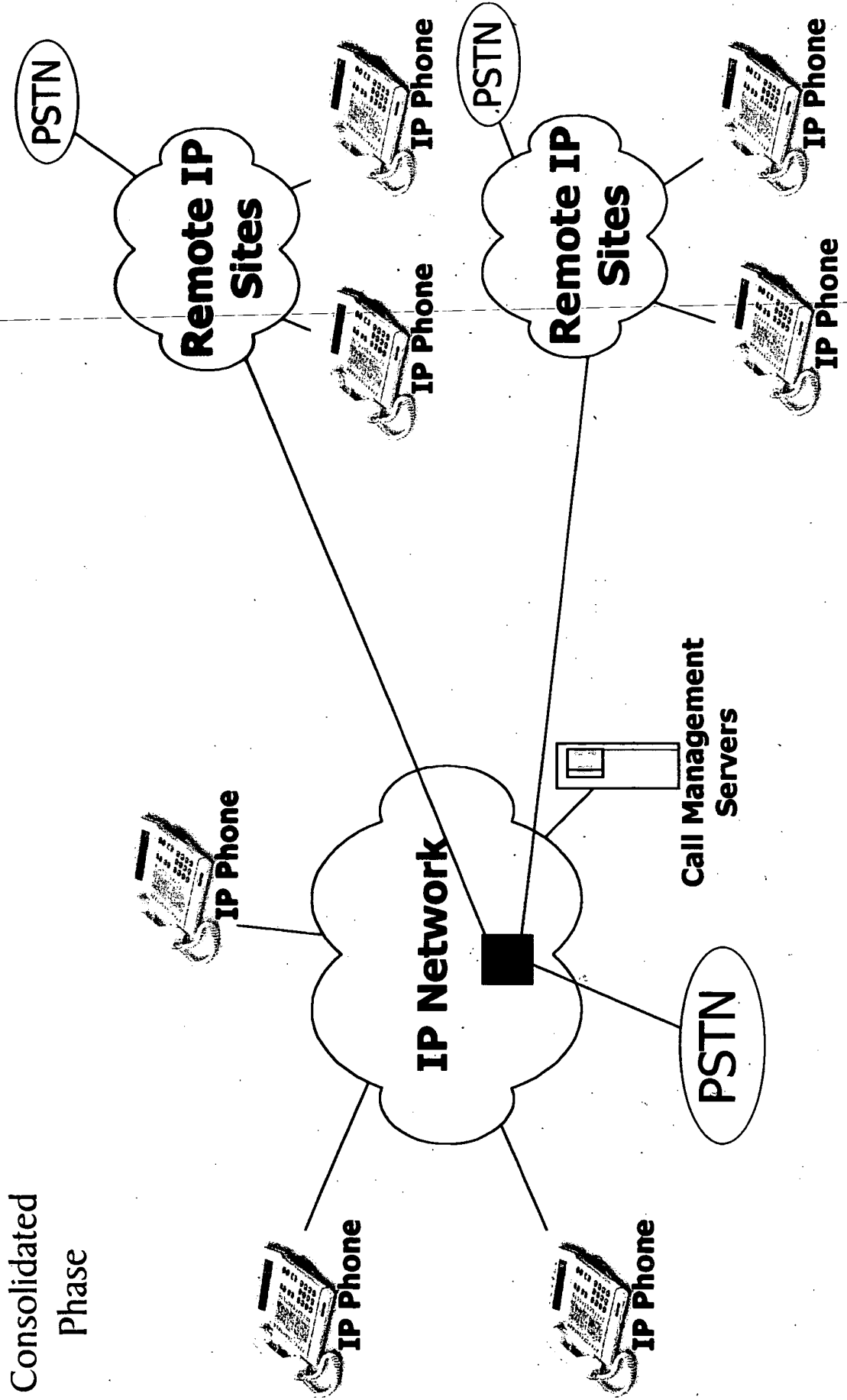
- Key Attributes:

- Migrate circuit switching to standard IP LAN/WAN Networking
- Standard-based, open intelligent call processing / gatekeeper services
- Standard-based IP telephones (wired or wireless Ethernet) replace proprietary telephones
- PSTN gateway options integrated into networking infrastructure for traditional connections





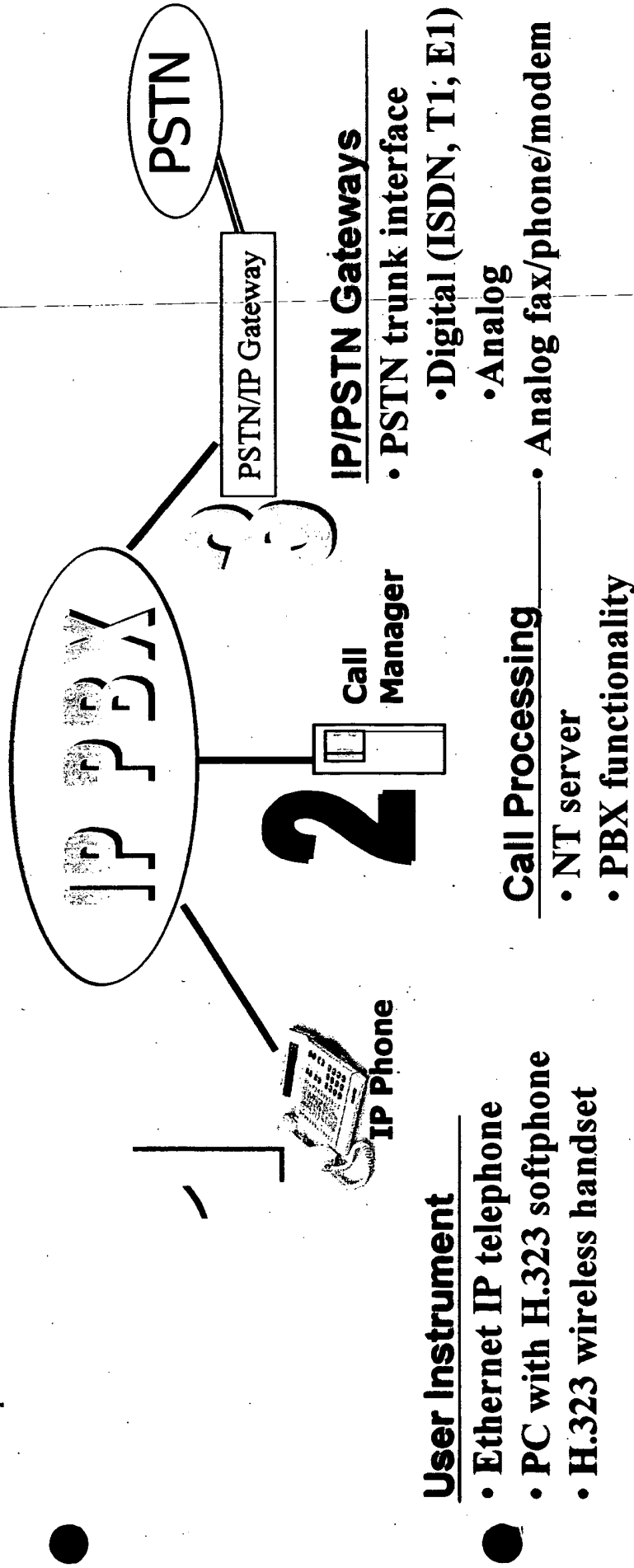




What are the advantages of a IP PBX?

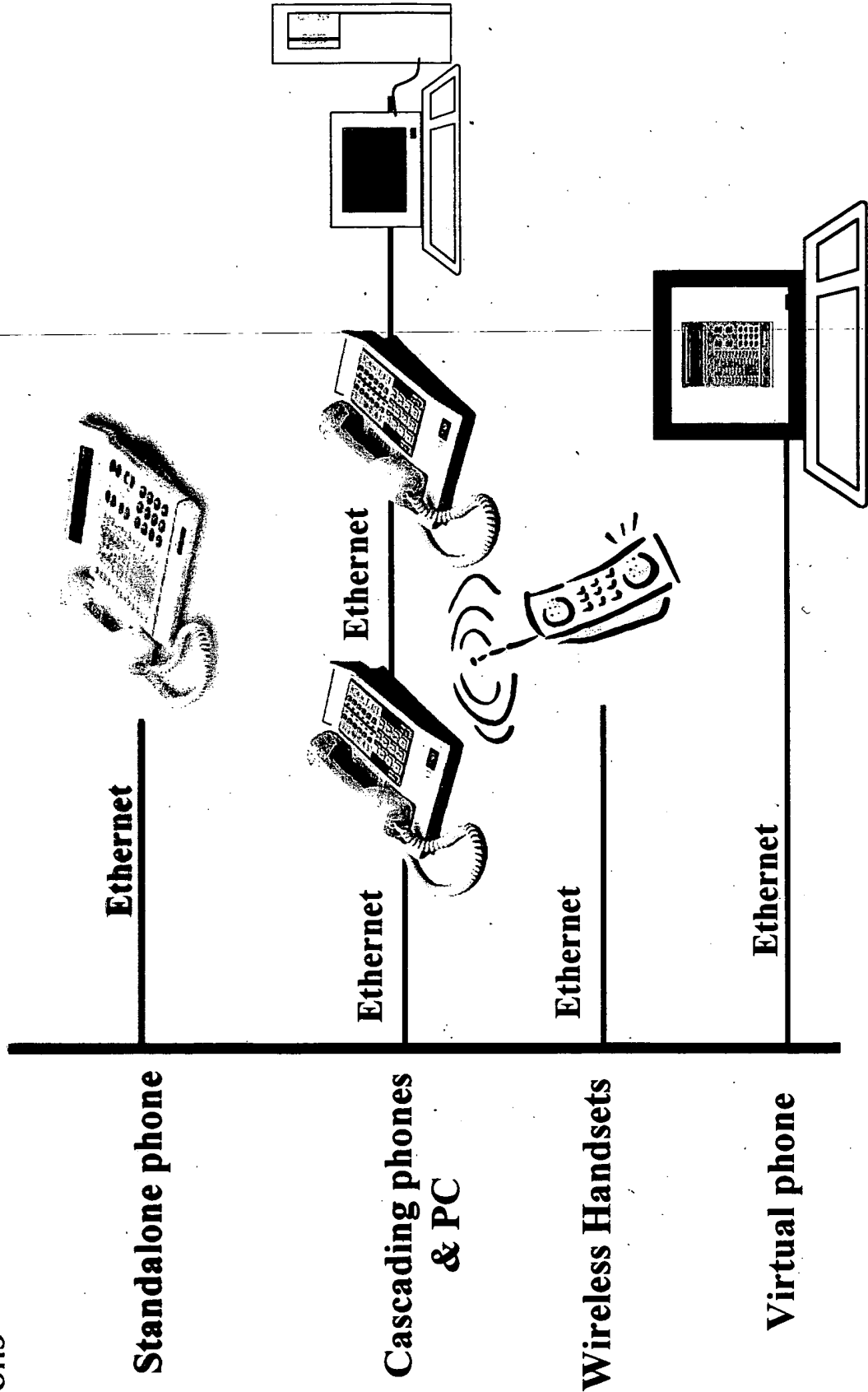
- **Low maintenance.** With the integration of the existing voice and data network, comes a reduction in the cost of administration, since one network serves both functions, i.e.. moving a phone costs drop from \$80 (traditional PBX) to \$0.
- **ROBO (remote office/branch office) integration.** Simpler, less costly approach to remote offices.
- **Consolidate and reduce WAN Costs.** Lower network costs through consolidation of data and voice; longer term; leverage the Internet.
- **Single infrastructure.** New wiring and communications plants can be built at a lower cost because of a single wiring plant for communication.
- **Enhanced Communications.** An IP PBX enables video and data collaboration.
- **Lower capital acquisition.** Long term, the cost to install and grow PBX hardware will be lower, as volume and new suppliers enter the market.

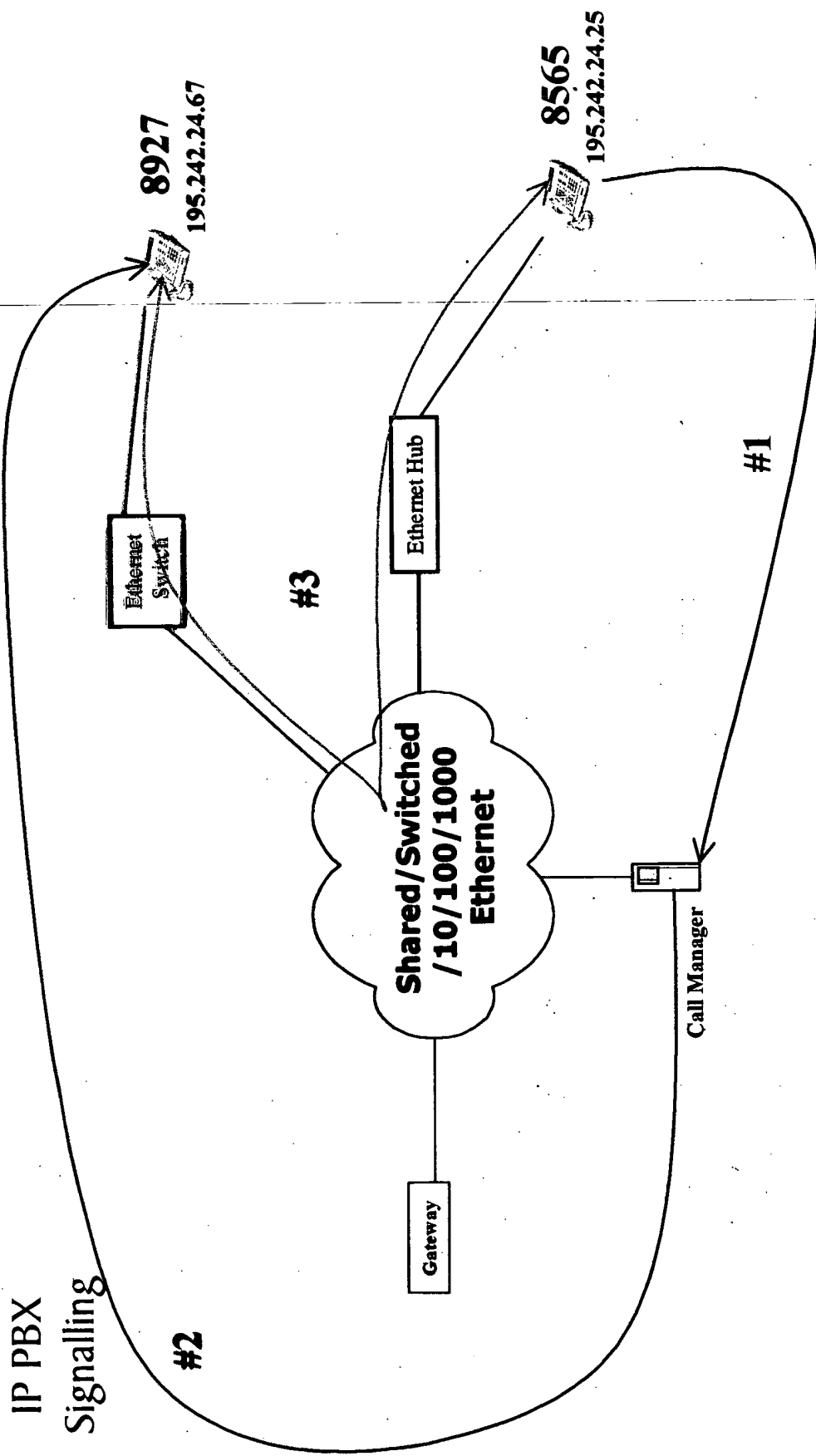
3 Core Components



Desktop
Options

IP LAN



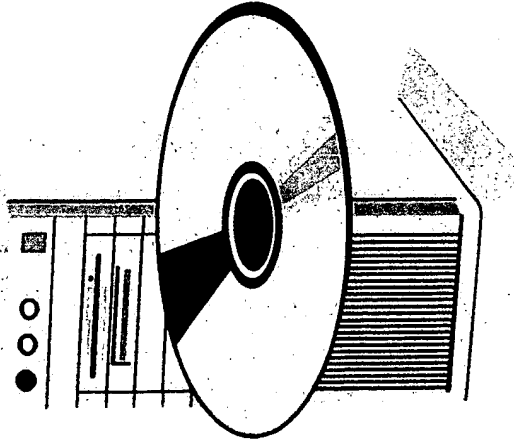


Step #1: Ext 8565 goes off hook and dials ext 8927 call

Step #2: Call Manager determines route, compression and instructs ext 8927 to rings

Step#3: When 8927 goes off-hook, Call Manager tells 8565 to start RTP audio stream,
with correct compression type to IP address for 8927.

Selsius Call- Manager



Product Functionality

- Provides intelligent call processing and PBX functionality
- H.323 standard-based
- Windows NT-based
- Standard PC hardware with only a Ethernet NIC
- Signalling support for gateways (Q.931, H.245, H.225)
- Call processing engine
 - Features: hold, transfer, forward (3 types), display messaging, last number redial, speed dial, call waiting, park, pickup etc.
 - Multiple line appearances/single number distribution
 - Bandwidth (Compression) Manager
 - SMDI interface to voice mail
- Manageable using web interface
 - Real-time/historical performance monitor
 - CDR reporting
- Architected for fault-tolerant and redundant operations for scalable/reliable operations

Product Release

Content

Currently

- Call transfer
- 3 types of forwarding
- hold
- Call park/pickup
- Call Waiting
- Multiple calls per line appearance
- multiple lines per phone
- multiple appearances per line
- Speed dial/ last # redial
- Single button NetMeeting
- Cisco 3620 access integration
- DHCP support
- vacant # intercept
- Configurable dial plan (E.164 translation)
- Digital PRI gateway
- analog access gateway (loop-start only for vmail)
- G.723 compression and call-by-call bandwidth management
- Automatic phone installation
- License management
- 3rd party voicemail interface (SMDI), joint marketing with Active Voice)
- CDR
- Cisco IP Precedence bit
- Performance monitor and event viewer
- 4 models of Ethernet telephones
- Virtual phone